

Application No.: 10/601,102

Docket No.: 064422-5007US

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~An electrospun A fiber, wherein said fiber is produced from a conducting solution wherein said conducting solution comprises at least one mesoporous precursor material~~ is produced by electrospinning and comprises at least one mesoporous molecular sieve.
2. (Currently amended) The fiber of claim 1, wherein the molecular sieve is synthesized using a mesoporous precursor material, and said mesoporous precursor material comprises gels prepared with surfactants.
3. (Canceled)
4. (Currently Amended) The fiber of claim 1, wherein said ~~mesoporous precursor material~~ fiber comprises a metal oxide selected from the group consisting of silicon dioxide, aluminum oxide, titanium dioxide, niobium oxide, tungsten oxide, tantalum oxide, vanadium pentoxide, indium tin oxide, calcium aluminate and mixtures thereof.
5. (Original) The fiber of claim 1, wherein said fiber has a diameter ranging from about 10 nanometers up to about 1,000 nanometers
6. (Currently Amended) A network of fibers wherein, said network comprises fibers comprising ~~mesoporous precursor material~~ at least one mesoporous molecular sieve, and further wherein, said fibers are produced by electrospinning.
7. (Currently Amended) The fibers of claim 6, wherein the molecular sieve is synthesized using a mesoporous precursor material, and said mesoporous precursor material comprises gels prepared with surfactants.
8. (Canceled)
9. (Currently Amended) The fibers of claim 6, wherein said ~~mesoporous precursor material~~ is fibers comprise a metal oxide selected from the group consisting of silicon dioxide, aluminum oxide, titanium dioxide, niobium oxide, tungsten oxide, tantalum oxide, vanadium pentoxide, indium tin oxide, calcium aluminate and mixtures thereof.

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10-30. (Canceled)

31. (Currently Amended) A method of making a network of fibers wherein, said network comprises fibers comprising ~~mesoporous precursor material~~ at least one mesoporous molecular sieve, and further wherein, said fibers are produced by electrospinning.

32. (Currently Amended) The method of claim 31, wherein the molecular sieve is synthesized using a mesoporous precursor material, and said mesoporous precursor material comprises gels prepared with surfactants.

33. (Canceled)

34. (Currently Amended) The method of claim 31, wherein said ~~mesoporous material is~~ fibers comprise a metal oxide selected from the group consisting of silicon dioxide, aluminum oxide, titanium dioxide, niobium oxide, tungsten oxide, tantalum oxide, vanadium pentoxide, indium tin oxide, calcium aluminate and mixtures thereof.